

## INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference <b>502-120PCT</b>	<b>FOR FURTHER ACTION</b> see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below.	
International application No. <b>PCT/IB 99/ 01415</b>	International filing date (day/month/year) <b>22/07/1999</b>	(Earliest) Priority Date (day/month/year) <b>24/07/1998</b>
Applicant <b>UNIVERSITY OF OTTAWA et al.</b>		

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 4 sheets.

☒ It is also accompanied by a copy of each prior art document cited in this report.

## 1. Basis of the report

- a. With regard to the language, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

☐ the international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

- b. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international search was carried out on the basis of the sequence listing:

☒ contained in the international application in written form.

☒ filed together with the international application in computer readable form.

☐ furnished subsequently to this Authority in written form.

☐ furnished subsequently to this Authority in computer readable form.

☐ the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.

☐ the statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished

2. ☐ Certain claims were found unsearchable (See Box I).

3. ☐ Unity of invention is lacking (see Box II).

## 4. With regard to the title,

☒ the text is approved as submitted by the applicant.

☐ the text has been established by this Authority to read as follows:

## 5. With regard to the abstract,

☒ the text is approved as submitted by the applicant.

☐ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box III. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

## 6. The figure of the drawings to be published with the abstract is Figure No.

5a; 5b

☐ as suggested by the applicant.

☐ Non of the figures.

☐ because the applicant failed to suggest a figure.

☒ because this figure better characterizes the invention.

## INTERNATIONAL SEARCH REPORT

International Application No.

PC 99/01415

## A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 C12N15/12 C12N5/10 C07K14/47 C12Q1/68 G01N33/50

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C12Q

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	FARAHANI R ET AL: "GENOMIC ORGANIZATION OF PRIMARY CHARACTERIZATION OF MIAP-3: THE MURINE HOMOLOGUE OF HUMAN X-LINKED IAP" GENOMICS,US,ACADEMIC PRESS, SAN DIEGO, vol. 42, no. 3, 15 June 1997 (1997-06-15), pages 514-518, XP000857199 ISSN: 0888-7543 cited in the application the whole document	1-58
Y	& DATABASE EMBL 'Online! ID:MMU88990, 1997 FAHARANI ET AL.: "MUS MUSCULUS X-LINKED INHIBITOR OF APOPTOSIS (MIAP-3) mRNA, COMPLETE CDS" abstract — -/-	1-58

☒ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

## \* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier document but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

"A" document member of the same patent family

Date of the actual completion of the international search

29 March 2000

Date of mailing of the international search report

04/04/2000

Name and mailing address of the ISA

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## INTERNATIONAL SEARCH REPORT

International Application No

PCT 99/01415

## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	WO 98 22131 A (KORNELUK ROBERT G ;UNIV OTTAWA (CA); TSANG BENJAMIN K (CA)) 28 May 1998 (1998-05-28) the whole document	1-58
Y	WO 97 26331 A (KORNELUK ROBERT G ;MACKENZIE ALEXANDER E (CA); ROY NATALIE (CA); U) 24 July 1997 (1997-07-24) the whole document	1-58
A	WO 96 11211 A (UNIV CALIFORNIA ;DAS SAUMITRA (US); DASGUPTA ASIM (US); COWARD PET) 18 April 1996 (1996-04-18) the whole document	
A	WO 97 06255 A (KORNELUK ROBERT G ;MACKENZIE ALEXANDER E (CA); BAIRD STEPHEN (CA);) 20 February 1997 (1997-02-20) the whole document	
A	LISTON P ET AL: "SUPPRESSION OF APOPTOSIS IN MAMMALIAN CELLS BY NAIP AND A RELATED FAMILY OF IAP GENES" NATURE,GB,MACMILLAN JOURNALS LTD. LONDON, vol. 379, no. 6563, 25 January 1996 (1996-01-25), pages 349-353, XP002032296 ISSN: 0028-0836 cited in the application the whole document	
A	& DATABASE EMBL 'Online! ID:HS458801, LISTON ET AL.: "HUMAN X-LINKED INHIBITOR OF APOPTOSIS PROTEIN XIAP mRNA, COMPL. CDS." abstract	
A	LISTON P ET AL: "GENOMIC CHARACTERIZATION OF THE MOUSE INHIBITOR OF APOPTOSIS PROTEIN 1 AND 2 GENES" GENOMICS,US,ACADEMIC PRESS, SAN DIEGO, vol. 46, no. 3, 15 December 1997 (1997-12-15), pages 495-503, XP000857427 ISSN: 0888-7543 cited in the application the whole document	
A	WO 97 06182 A (TULARIK INC) 20 February 1997 (1997-02-20) the whole document	
	-/-	

## INTERNATIONAL SEARCH REPORT

International Application No

PCT 99/01415

## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	GURTU V ET AL: "IRES bicistronic expression vectors for efficient creation of stable mammalian cell lines" BIOCHEMICAL AND BIOPHYSICAL RESEARCH COMMUNICATIONS, US, ACADEMIC PRESS INC. ORLANDO, FL, vol. 229, 4 December 1996 (1996-12-04), pages 295-298, XP002100809 ISSN: 0006-291X the whole document	
A	US 5 358 856 A (BALTIMORE DAVID ET AL) 25 October 1994 (1994-10-25) the whole document	
A	LE S -Y ET AL: "A COMMON RNA STRUCTURAL MOTIF INVOLVED IN THE INTERNAL INITIATION OF TRANSLATION OF CELLULAR MRNAS" NUCLEIC ACIDS RESEARCH, GB, OXFORD UNIVERSITY PRESS, SURREY, vol. 25, no. 2, 15 January 1997 (1997-01-15), pages 362-369, XP002910799 ISSN: 0305-1048	
A	WO 98 21321 A (QBI ENTERPRISES LTD ; EINAT PAZ (IL); SKALITER RAMI (IL); GROSMAN Z) 22 May 1998 (1998-05-22) the whole document	
P, Y	HOLCIK ET AL.: "A NEW INTERNAL-RIBOSOME-ENTRY-SITE MOTIF POTENTIATES XIAP-MEDIATED CYTOPROTECTION" NATURE CELL BIOLOGY, vol. 1, July 1999 (1999-07), pages 190-192, XP000879418 the whole document	1-58
P, Y	WO 98 35693 A (MACKENZIE ALEXANDER E ; BAIRD STEPHEN (CA); UNIV OTTAWA (CA); KORNE) 20 August 1998 (1998-08-20) the whole document	1-58

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/99/01415

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
W0 9822131	A	28-05-1998	AU 5065098 A	10-06-1998
W0 9726331	A	24-07-1997	AU 1614997 A	11-08-1997
			CA 2215793 A	24-07-1997
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			EP 0837939 A	29-04-1998
			JP 11511013 T	28-09-1999
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W0 9821321	A	22-05-1998	US 6013437 A	11-01-2000
			AU 5258098 A	03-06-1998
			EP 0942969 A	22-09-1999
W0 9835693	A	20-08-1998	AU 7074698 A	08-09-1998